

Patent 112.P14025

IN THE CLAIMS**Amendments to the Claims:**

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

What is claimed is:

1. (Currently Amended) An optical scanner comprising:

a light ~~[[sensing]]~~ sensitive charge storage device;

an optical system;

a vibration sensor mounted on the light ~~[[sensing]]~~ sensitive charge storage device, the vibration sensor capable of detecting a magnitude of vibration of the light ~~[[sensing]]~~ sensitive charge storage device;

a controller connected to the vibration sensor, the controller capable of measuring the magnitude of vibration of the light ~~[[sensing]]~~ sensitive charge storage device and further capable of producing a corresponding actuator signal; and

an actuator connected to the controller and to the optical system, the actuator capable of adjusting the optical system according to the actuator signal.

2. (Previously Presented) The optical scanner of claim 1, wherein the optical system comprises a mirror, the actuator capable of adjusting the optical system through rotating the mirror.

3. (Cancelled)

4. (Currently Amended) A method of compensating for vibration of an optical scanner, comprising:
measuring a magnitude of vibration of a light ~~[[sensing]]~~ sensitive charge storage device;
converting the measured vibration magnitude into an actuator signal; and
compensating for the measured vibration by adjusting an optical system according to the actuator signal.

5. (Previously Presented) The method of claim 4, wherein adjusting the optical system comprises rotating a mirror.

6. (Cancelled)

7. (Currently Amended) An apparatus comprising:
means for sensing a vibration of a light ~~[[sensing]]~~ sensitive charge storage device of an optical device;
means for converting said vibration to an actuator signal; and
means for adjusting an optical system according to the actuator signal.

8. (Previously Presented) The apparatus of claim 7 wherein said means for adjusting the optical system comprises means for adjusting a mirror.

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9. (Cancelled)

10. (Cancelled)

11. (New) The optical scanner of claim 1 wherein said light sensitive charge storage device comprises a charge-coupled device.

12. (New) An optical scanner comprising:

a light sensitive charge storage device;

an optical system;

a vibration sensor mounted on said light sensitive charge storage device, said vibration sensor capable of detecting a magnitude of vibration of said light sensitive charge storage device;

a controller connected to said vibration sensor, said controller capable of measuring said magnitude of vibration of said light sensitive charge storage device, said controller implementing proportional-integral-derivative control, said controller further capable of producing a corresponding actuator signal; and

an actuator connected to said controller and to said optical system, said actuator capable of adjusting said optical system according to said actuator signal.

13. (New) The optical scanner of claim 12, wherein:

said optical system comprises a mirror, said actuator capable of adjusting said optical system through rotating said mirror.

14. (New) The optical scanner of claim 12 wherein said light sensitive charge storage device comprises a charge coupled device.